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UNITED STATES DEPARTMENT OF AGRICULTURE
Bureau of Agricultural Economics

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UNITED STATES STANDARDS
FOR
BROWN RICE



As Amended, Effective August 21, 1937

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Washington, D. C.
August 1937

By virtue of the authority vested in the Secretary of Agriculture by the act of Congress entitled "An act making appropriations for the Department of Agriculture and for the Farm Credit Administration for the fiscal year ending June 30, 1938, and for other purposes" approved June 29, 1937 (Public No. 173 - 75th Congress) I, M. L. Wilson, Acting Secretary of Agriculture, do hereby fix, establish, and promulgate, in lieu of all existing standards for brown rice, the following standards of quality and condition for brown rice, which shall be in force and effect on and after September 1, 1937, and so long as Congress shall provide the necessary authority therefor, unless amended or superseded by standards hereafter prescribed and promulgated under such authority.

In testimony whereof I have hereunto set my hand and caused the official seal of the Department of Agriculture to be affixed in the city of Washington, this 21st day of August, 1937.

(S E A L)

/s/

M. L. Wilson,
Acting Secretary.

UNITED STATES STANDARDS FOR BROWN RICE^{1/}

For the purposes of the United States standards for brown rice:

BROWN RICE.- Brown rice shall be whole or broken kernels of rice of the classes specified in these standards, from which the hulls only have been removed from not less than 90 percent of the kernels, and which does not contain more than 10 percent of cereal grains of a kind or kinds other than rice, seeds, or other foreign material, either singly or in any combination.

CLASSES.- Brown rice shall be divided into sixteen classes, as follows: Class I, Honduras Brown Rice; Class II, Edith Brown Rice; Class III, Fortuna Brown Rice; Class IV, Carolina Brown Rice; Class V, Lady Wright Brown Rice; Class VI, Early Wright Brown Rice; Class VII, Rexoro Brown Rice; Class VIII, Delitus Brown Rice; Class IX, Nira Brown Rice; Class X, Shoemed Brown Rice; Class XI, Blue Rose Brown Rice; Class XII, Early Prolific Brown Rice; Class XIII, Louisiana Pearl Brown Rice; Class XIV, Japan Brown Rice; Class XV, Calady Brown Rice; and Class XVI, Mixed Brown Rice.

GRADES.- Brown rice shall be graded and designated according to the respective grade requirements of the numerical grades, or named grades, and Sample grade of its appropriate class or subclass, and according to the special grades when applicable.

HONDURAS BROWN RICE (CLASS I)

This class shall include the rices known commercially as Honduras and Mortgage Lifter, and may include not more than 10 percent of whole kernels of rice of any other class or classes.

EDITH BROWN RICE (CLASS II)

This class shall include the rice known commercially as Edith, and may include not more than 10 percent of whole kernels of rice of any other class or classes.

FORTUNA BROWN RICE (CLASS III)

This class shall include the rice known commercially as Fortuna, and may include not more than 10 percent of whole kernels of rice of any other class or classes.

^{1/} The specifications of these standards shall not excuse failure to comply with the provisions of the Food and Drugs Act.

CAROLINA BROWN RICE (CLASS IV)

This class shall include the rices known commercially as Carolina and Storm Proof, and may include not more than 10 percent of whole kernels of rice of any other class or classes.

LADY WRIGHT BROWN RICE (CLASS V)

This class shall include the rice known commercially as Lady Wright, and may include not more than 10 percent of whole kernels of rice of any other class or classes.

EARLY WRIGHT BROWN RICE (CLASS VI)

This class shall include the rice known commercially as Early Wright, and may include not more than 10 percent of whole kernels of rice of any other class or classes.

REXORO BROWN RICE (CLASS VII)

This class shall include the rice known commercially as Rexoro, and may include not more than 10 percent of whole kernels of rice of any other class or classes.

DELITUS BROWN RICE (CLASS VIII)

This class shall include the rice known commercially as Delitus, and may include not more than 10 percent of whole kernels of rice of any other class or classes.

NIRA BROWN RICE (CLASS IX)

This class shall include the rice known commercially as Nira, and may include not more than 10 percent of whole kernels of rice of any other class or classes.

CLASSES I TO IX, INCLUSIVE

Grade requirements for the classes Honduras, Edith, Fortuna, Carolina, Lady Wright, Early Wright, Rexoro, Delitus, and Nira, brown rice

United States grade	Maximum limits of -											
	Cereal grains, seeds, mud lumps, and heat-damaged kernels (number in 500 grams)				Broken kernels							
	Cereal grains	Seeds	Heat-damaged kernels	Mud lumps	Paddy grains	Red rice	Damage other than heat	Chalky kernels	Total	Through No. 64 sieve	Other rices	
	No.	No.	No.	No.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	
Extra Fancy	0	2	0	1	0.2	0.5	1	1.5	10	1	1	
Fancy	1	5	1	2	.4	1.0	3	2.5	15	2	2	
Choice	5	10	5	5	1.0	3.0	5	5.0	20	3	4	

Sample grade: Sample grade shall include brown rice of the classes Honduras, or Edith, or Fortuna, or Carolina, or Lady Wright, or Early Wright, or Rexoro, or Delitus, or Nira, respectively, which does not come within the requirements of any of the grades from Extra Fancy to Choice, inclusive; or which has any commercially objectionable foreign odor; or is musty, or sour, or heating, or hot; or is of a badly damaged or badly stained appearance; or is otherwise of distinctly low quality; or contains more than 0.1 percent of foreign material; or contains more than 14.5 percent of moisture.

SHOEMED BROWN RICE (CLASS X)

This class shall include the rice known commercially as Shoemed, and may include not more than 10 percent of whole kernels of rice of any other class or classes.

BLUE ROSE BROWN RICE (CLASS XI)

This class shall include the rices known commercially as Blue Rose, Greater Blue Rose, and Improved Blue Rose, and may include not more than 10 percent of whole kernels of rice of any other class or classes.

EARLY PROLIFIC BROWN RICE (CLASS XII)

This class shall include the rice known commercially as Early Prolific, and may include not more than 10 percent of whole kernels of rice of any other class or classes.

LOUISIANA PEARL BROWN RICE (CLASS XIII)

This class shall include the rice known commercially as Louisiana Pearl, and may include not more than 10 percent of whole kernels of rice of any other class or classes.

JAPAN BROWN RICE (CLASS XIV)

This class shall include the rice known commercially as Japan, and may include not more than 10 percent of whole kernels of rice of any other class or classes. This class shall be divided into two subclasses, as follows: (a) Japan brown rice and (b) California-Japan brown rice.

Subclass (a) Japan Brown Rice

This subclass shall include all rice known commercially as Japan possessing the characteristics of rice of this class as grown east of the Rocky Mountains.

CLASSES X TO XIII, INCLUSIVE,
AND SUBCLASS (A) OF CLASS XIV

Grade requirements for the classes Shoemed, Blue Rose, Early Prolific, and Louisiana Pearl, and for the subclass (a) Japan, brown rice

United States grade	Maximum limits of -											
	Cereal grains, seeds, mud lumps, and heat-damaged kernels (number in 500 grams)										Broken kernels	
	Cereal grains	Seeds	Heat-damaged kernels	Mud lumps	Paddy grains	Red rice	Damage other than heat	Chalky kernels	Total	Through No. 6½ sieve	Other rices	
	No.	No.	No.	No.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Extra Fancy	0	2	0	1	0.2	0.5	1	1.5	5	1	1	1
Fancy	1	5	1	2	.4	1.0	3	2.5	10	2	2	2
Choice	5	10	5	5	1.0	3.0	5	5.0	15	3	4	4

Sample grade: Sample grade shall include brown rice of the classes Shoemed, or Blue Rose, or Early Prolific, or Louisiana Pearl, or of the subclass Japan, respectively, which does not come within the requirements of any of the grades from Extra Fancy to Choice, inclusive; or which has any commercially objectionable foreign odor; or is musty, or sour, or heating, or hot; or is of a badly damaged or badly stained appearance; or is otherwise of distinctly low quality; or contains more than 0.1 percent of foreign material; or contains more than 14.5 percent of moisture.

Subclass (b) California-Japan Brown Rice

This subclass shall include all rice known commercially as Japan possessing the characteristics of rice of this class as grown west of the Great Plains area of the United States.

CALADY BROWN RICE (CLASS XV)

This class shall include the rice known commercially as Calady and other rices of similar type possessing the characteristics of rice of this class as grown west of the Great Plains area of the United States, and may include not more than 10 percent of whole kernels of rice of any other class or classes.

Grade requirements for the subclass (b) California-Japan and for the class Calady, brown rice

United States grade	Maximum limits of -											
	Cereal grains, seeds, mud lumps, and heat-damaged kernels (number in 500 grams)				Broken kernels							
	Cereal grains	Seeds	Heat-damaged kernels	Mud lumps	Paddy grains	Red rice	Damage other than heat	Chalky kernels	Total	Through No. 6½ sieve	Other rices	
	No.	No.	No.	No.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.	Pct.
Fancy	1	25	1	1	0.2	0.2	0.3	3	10	1		0.5
1	3	50	3	3	.2	.4	.7	6	10	2		1.0
2	5	75	5	5	.4	.7	1.5	10	15	3		2.0

Sample grade: Sample grade shall include brown rice of the subclass California-Japan or of the class Calady, respectively, which does not come within the requirements of any of the grades from Fancy to No. 2, inclusive; or which has any commercially objectionable foreign odor; or is musty, or sour, or is heating, or hot; or is of a badly damaged or badly stained appearance; or is otherwise of distinctly low quality; or contains more than 0.1 percent of foreign material; or contains more than 15 percent of moisture.

MIXED BROWN RICE (CLASS XVI)

This class shall include all mixtures of brown rice not provided for in the classes from I to XV, inclusive.

Grade Requirements and Designations.- Mixed Brown Rice shall be graded according to the grade requirements of the class or subclass of brown rice which predominates in the mixture, except that the grade specifications for the factor "other rices" shall be disregarded.

The grade designations for Mixed Brown Rice shall include, successively, in the order named, (1) the name of the grade, or the number thereof, (2) the words "Mixed Brown Rice," and (3) the name and approximate percentage of each class or subclass of brown rice which constitutes 10 percent or more of the mixture in the order of its predominance; but if only one class or subclass exceeds 10 percent of the mixture, the name and approximate percentage of that class or subclass shall be added to the grade designation, followed by the name and approximate percentage of at least one other class or subclass.

SPECIAL GRADES FOR BROWN RICE

Weevily Brown Rice

Definition.- Weevily brown rice shall be brown rice of any class which is infested with live weevils or other insects injurious to stored rice.

Grades.- Weevily brown rice shall be graded and designated according to the grade requirements of the standards applicable to such rice if it were not weevily, and there shall be added to, and made a part of, the grade designation, the word "Weevily."

DEFINITIONS

Basis of Grade Determinations.- All determinations shall be upon the basis of the rice as a whole.

Percentages.- Percentages, except in the case of moisture, shall be percentages ascertained by weight.

Percentage of Moisture.- Percentage of moisture shall be that ascertained by the air oven and the method of use thereof described in Service and Regulatory Announcements No. 147 of the Bureau of Agricultural Economics of the United States Department of Agriculture, or ascertained by any device and method which give equivalent results in the determination of moisture.

No. $6\frac{1}{2}$ Sieve.- A metal sieve perforated with round holes $6\frac{1}{32}$ inch in diameter.

Damaged Kernels.- Damaged kernels shall be kernels and pieces of kernels of brown rice which have been distinctly damaged by water, insects, or by any other means. Sound double and sound broken kernels shall not be considered damaged kernels.

Heat-Damaged Kernels.- Heat-damaged kernels shall be kernels and pieces of kernels of brown rice which have been distinctly discolored by external heat or as a result of heating caused by fermentation.

Cereal Grains.- Cereal grains shall include barley, wheat, rye, emmer, spelt, einkorn, corn, grain sorghums, and oats, and shall not include buckwheat, flaxseed, and wild oats.

Seeds.- Seeds shall be grains, kernels, or seeds, either whole or broken, of any plant other than rice or other cereal grains.

Red Rice.- Red rice shall be kernels or pieces of kernels of brown rice which are distinctly red in color or on which the bran is red.

Broken Kernels.- Broken kernels shall be split kernels and pieces of kernels of brown rice which are less than three-fourths of the length of the perfect kernel.

Chalky Kernel.- A chalky kernel shall be a kernel or a piece of a kernel of brown rice one-half or more of which is chalky.

Mud Lumps.- Mud lumps shall be lumps of dried mud which will not pass through a No. $6\frac{1}{2}$ sieve. Mud lumps which will pass through a No. $6\frac{1}{2}$ sieve shall function in grading only as foreign material.

Paddy Grains.- Paddy grains shall be kernels of rice from which the hulls have not been removed.

Foreign Material.- Foreign material shall include all matter other than rice except mud lumps which will not pass through a No. $6\frac{1}{2}$ sieve, and cereal grains, and seeds.